



# EFFICACY DATA for GEN10 DISINFECTANT/DETERGENT (EPA Reg. No. 1839-79-87538)



## BATERIALCIDAL DATA:

**Test Method:** AOAC Use Dilution

**Test Conditions:** 2oz/gal dilution, 5% organic soil load, 10 minute contact time,  
Stainless steel carrier substrates, 20°C exposure temperature.

## Results:

Test Organism	Sample	Number of Carriers	
		Exposed	Positive
<i>Staphylococcus aureus</i> (ATCC 6538)	A	60	0
	B	60	0
	C	60	0
<i>Salmonella (choleraesuis) enterica</i> (ATCC 0708)	A	60	0
	B	60	0
	C	60	0
<i>Pseudomonas aeruginosa</i> PRD 10 (ATCC 15442)	A	60	0
	B	60	0
	C	60	0
<i>Brevibacterium ammoniagenes</i> (ATCC 6871)	A	10	0
	B	10	0
<i>Enterobacter aerogenes</i> (ATCC 13048)	A	10	0
	B	10	0
<i>Escherichia coli</i> (ATCC 11229)	A	10	0
	B	10	0
<i>Klebsiella pneumoniae</i> (ATCC 4352)	A	10	0
	B	10	0
<i>Listeria monocytogenes</i> (ATCC 984)	A	10	0
	B	10	0
Methicillin resistant <i>Staphylococcus aureus</i> (MRSA) (ATCC 33593)	A	10	0
	B	10	0
<i>Salmonella (schottmuelleri) enterica</i> (ATCC 8759)	A	10	0
	B	10	0
<i>Shigella dysenteriae</i> (ATCC 12180)	A	10	0
	B	10	0
<i>Streptococcus faecalis</i> (ATCC 10541)	A	10	0
	B	10	0
<i>Streptococcus pyogenes</i> (Clinical-Flesh Eating Strain, BIRD M3)	A	10	0
	B	10	0
<i>Streptococcus salivarius</i> (ATCC 9222)	A	10	0
	B	10	0
Vancomycin intermediate resistant <i>Staphylococcus aureus</i> (VISA)	A	10	0
	B	10	0

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## BACTERICIDAL DATA (continued):

**Conclusion:** Under the conditions of these investigations, Gen10 Detergent/Disinfectant demonstrated **bactericidal** activity against *Staphylococcus aureus*, *Salmonella (choleraesuis) enterica*, *Pseudomonas aeruginosa* PRD 10, *Brevibacterium ammoniagenes*, *Enterobacter aerogenes*, *Escherichia coli*, *Klebsiella pneumoniae*, *Listeria monocytogenes*, Methicillin resistant *Staphylococcus aureus* (MRSA), *Salmonella (schottmuelleri) enterica*, *Shigella dysenteriae*, *Streptococcus faecalis*, *Streptococcus pyogenes* (Clinical-Flesh Eating Strain, BIRD M3), *Streptococcus sa/ivarius* and Vancomycin intermediate resistant *Staphylococcus aureus* (VISA) according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

## VIRUCIDAL DATA:

### Test Methods:

\*U.S. E.P.A. Pesticide Assessment Guidelines, Sub-division G: Product Performance, 1982, Section 91-30, pp. 72-76.

†Virucide Assay (EPA, Federal Register IO, No. 123, 6/25/75, p. 26836)

• Protocols for Testing the Efficacy of Disinfectants against Hepatitis B Virus (HBV) (EPA, Federal Register, Vol., 65, No. 166, 8/25/2000, p. 51828).

‡Protocol for Testing Disinfectants against Hepatitis C Virus using Bovine Viral Diarrhea Virus as approved by the U.S. EPA on August 15, 2002.

**Test Conditions:** dilution (see below), 10 minute contact time, tested in the presence of organic soil load, glass Petri dish substrates

Results:	Test Organism	Dilution	Sample	Titer Reduction
	†Adenovirus Type 2	2oz/gal	A B	3.0 log <sup>10</sup> >3.0 log <sup>10</sup>
	*Avian Influenza A Virus (H3N2) (Avian Reassortant) (ATCC VR-2072)	2oz/gal	A B	≥3.5 log <sup>10</sup> ≥3.5 log <sup>10</sup>
	‡Bovine Viral Diarrhea Virus (BVDV)	2oz/gal	A B	≥4.5 log <sup>10</sup> ≥4.5 log <sup>10</sup>
	*Feline Calicivirus (FCV)	2oz/gal	A B	5.79 log <sup>10</sup> >6.06 log <sup>10</sup>
	•Hepatitis B Virus (HBV) (Duck Hepatitis B Virus-DHBV)	2oz/gal	A B	4.5 log <sup>10</sup> 4.5 log <sup>10</sup>
	‡Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus-BVDV)	2oz/gal	A B	6.1 log <sup>10</sup> 3.8 log <sup>10</sup>
	†Herpes Simplex Type (Sabin)	2oz/gal	A B	≥4.0 log <sup>10</sup> ≥3.7 log <sup>10</sup>
	*Human Coronavirus (ATCC VR-740, strain 229E)	2oz/gal	A B	≥3.0 log <sup>10</sup> ≥3.0 log <sup>10</sup>
	*Human Immunodeficiency Virus, HTLV-III <sub>RF</sub> strain of HIV-1 (assoc. w/AIDS)	2oz/gal	A B	≥3.0 log <sup>10</sup> ≥3.0 log <sup>10</sup>
	Influenza A2 (Japan 305/57)	2oz/gal	A B	>6.5 log <sup>10</sup> >6.0 log <sup>10</sup>
	*Norovirus (Norwalk Virus) (FCV)	2oz/gal	A B	5.79 log <sup>10</sup> >6.06 log <sup>10</sup>

**VIRUCIDAL DATA (continued):**

Results:

Test Organism	Dilution	Sample	Titer Reduction
<i>Pandemic 2009 H1N1 Influenza A Virus</i>	2oz/gal		(refer to note below)
* <i>Porcine Respiratory &amp; Reproductive Syndrome Virus (PRRSV)(strain NVSL)</i>	2oz/gal	A	≥4.75 log <sup>10</sup>
		B	≥4.75 log <sup>10</sup>
* <i>SARS Associated Coronavirus (ZeptoMetrix)</i>	2oz/gal	A	4.03 log <sup>10</sup>
		B	4.03 log <sup>10</sup>
† <i>Vaccinia (Wyeth)</i>	2oz/gal	A	3.5 log <sup>10</sup>
		B	3.5 log <sup>10</sup>
* <i>Canine Adenovirus</i>	8oz/gal	A	4.83 log <sup>10</sup>
		B	4.83 log <sup>10</sup>
* <i>Canine Parainfluenza Virus (CPI/PI-2)</i>	8oz/gal	A	3.00 log <sup>10</sup>
		B	3.33 log <sup>10</sup>
* <i>Canine Parvovirus Type 2 (CPV-2b/Eu)</i>	8oz/gal	A	≥3.27 log <sup>10</sup>
		B	≥3.27 log <sup>10</sup>
* <i>Feline Coronavirus</i>	8oz/gal	A	4.0 log <sup>10</sup>
		B	4.0 log <sup>10</sup>
* <i>Feline Panleukopenia Virus</i>	8oz/gal	A	4.0 log <sup>10</sup>
		B	4.0 log <sup>10</sup>
* <i>Feline Picornavirus (ATCC VR-653)</i>	8oz/gal	A	4.0 log <sup>10</sup>
		B	4.0 log <sup>10</sup>
* <i>Feline Rhinotracheitis Virus</i>	8oz/gal	A	≥4.83 log <sup>10</sup>
		B	≥4.83 log <sup>10</sup>
* <i>Porcine Parvovirus</i>	8oz/gal	A	4.0 log <sup>10</sup>
		B	4.0 log <sup>10</sup>

**Conclusion:** Under the conditions of this investigation, Gen10 Detergent/Disinfectant demonstrated virucidal activity at 2 oz./gal against Adenovirus Type 2, Avian Influenza A Virus (H3N2), Avian Influenza Virus Type A (H9N2), Bovine Viral Diarrhea Virus (BVDV), Feline Calicivirus (FCV), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Type I, Human Coronavirus, Human Immunodeficiency Virus (HIV-1), Influenza A2, Norovirus (Norwalk Virus), Pandemic H1N1 Influenza A Virus, Porcine Respiratory & Reproductive Syndrome Virus, SARS Associated Coronavirus and Vaccinia (Wyeth) and at 8 oz/gal against Canine Adenovirus, Canine Coronavirus, Canine Parainfluenza Virus, Canine Parvovirus, Feline Coronavirus, Feline Panleukopenia Virus, Feline Picornavirus, Feline Rhinotracheitis Virus, and Porcine Parvovirus according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

**NOTE:** Per the EPA guidance document dated October 21, 2009, disinfectant products that bear label claims against human, avian, or swine influenza A virus, and have submitted and received approval of efficacy data to support these label claims, may include a label claim against the Pandemic 2009 H1N1 Influenza A Virus.

**FUNGICIDAL DATA:**

**Test Method:** AOAC Fungicidal Test

**Test Organism:** *Trichophyton mentagrophytes* (ATCC 9533)

**Test Conditions:** 2 oz. /gal dilution, 5% organic soil load, 20°C exposure temperature

**Results:**

Exposure Time (min.) vs. Growth

Sample	<u>5</u>	<u>10</u>	<u>15</u>
A	+	0	0
B	+	0	0

**Conclusion:** Under the conditions of this investigation, Gen10 Detergent/Disinfectant demonstrated fungicidal activity against *Trichophyton mentagrophytes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

**SANITIZATION DATA:**

**Test Method:** AOAC Germicidal and Detergent Sanitizing Action of Disinfectants

**Test Conditions:** 200 ppm active quaternary, 2 oz. /3.5 gal dilution

**Results:**

Test Organism Sample		Synthetic Hard Water (mml)	TOTAL BACTERIAL COUNTS/ %KILL vs. EXPOSURE TIME			
			<u>30 seconds</u>		<u>60 seconds</u>	
			TBC *	%Kill†	TBC	%Kill†
<i>Staphylococcus aureus</i> (ATCC 6538)	A	250	1120	99.999	65	99.999
	B	250	1065	99.999	70	99.999
	C	250	1275	99.999	185	99.999
<i>Escherichia coli</i> (ATCC 11229)	A	300	300	99.999	65	99.999
	B	300	1215	99.999	80	99.999
	C	300	1460	99.999	190	99.999

\*TBC= Total Bacterial Count, cfu/ml †% Kill calculated based on initial inoculum Control count of 75-125 x 10<sup>6</sup>cfu/ml.

**Conclusion:** Under the conditions of these investigations, Gen10 Detergent/Disinfectant demonstrated **sanitizing** activity against *Staphylococcus aureus* and *Escherichia coli* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a sanitizer.

### MILDEW FUNGISTATIC DATA:

**Test Method:** Hard Surface Mildew Fungistatic Test (Unofficial Protocol, 10/27/76)

**Test Organism:** *Aspergillus niger* (ATCC 6275)

**Test Conditions:** 2 oz./gal dilution, tile substrates

**Results:**

SAMPLE	No. of Exposed tiles	No. of Tiles Showing Growth
GEN 10	10	0
CONTROL	10	0

**Conclusion:** Under the conditions of this investigation, Gen10 Detergent/Disinfectant demonstrated fungistatic activity against *Aspergillus niger* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungistat.

### BACTERICIDAL STABILITY DATA OF USE-SOLUTION:

**Test Method:** Use Dilution

**Test Conditions:** 5% organic soil load, 10 minute contact time, stainless steel carrier substrates, deionized water, 20°C exposure temperature, 2 oz./gal dilution

**Storage Conditions:** sealed containers at room temperature

**Results:**

Test Time	Sample	Test Organism	Number of Carriers	
			Exposed	Positive
Zero Time	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 1	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 2	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 3	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 4	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0

**Conclusion:** The results of this investigation show that a 2 oz./gal use dilution of Gen10 Detergent/Disinfectant will demonstrate disinfectant efficacy against *Staphylococcus aureus*, *Salmonella (choleraesuis) enterica*, and *Pseudomonas aeruginosa* for up to 4 weeks in accordance with criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

**BACTERICIDAL DATA:**

**Test Method:** AOAC Use Dilution

**Test Conditions:** 2 oz. /gal dilution,5% organic soil load, 10 minute contact time, stainless steel carrier substrates, 20°C exposure temperature.

**Results:**

Test Organism	Sample	Exposed	Positive
<i>Staphylococcus aureus</i> (ATCC 6538)	A	60	0
	B	60	0
	C	60	0
<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	A	60	0
	B	60	0
	C	60	0
<i>Pseudomonas aeruginosa</i> PRD 10 (ATCC 15442)	A	60	0
	B	60	0
	C	60	0
<i>Brevibacterium ammoniagenes</i> (ATCC 6871)	A	10	0
	B	10	0
<i>Enterobacter aerogenes</i> (ATCC 13048)	A	10	0
	B	10	0
<i>Escherichia coli</i> (ATCC 11229)	A	10	0
	B	10	0
<i>Klebsiella pneumoniae</i> (ATCC 4352)	A	10	0
	B	10	0
<i>Listeria monocytogenes</i> (ATCC 984)	A	10	0
	B	10	0
Methicillin resistant <i>Staphylococcus aureus</i> (MRSA) (ATCC 33593)	A	10	0
	B	10	0
<i>Salmonella (schottmuelleri) enterica</i> (ATCC 8759)	A	10	0
	B	10	0
<i>Shigella dysenteriae</i> (ATCC 12180)	A	10	0
	B	10	0
<i>Streptococcus faecalis</i> (ATCC 10541)	A	10	0
	B	10	0
<i>Streptococcus pyogenes</i> (Clinical-Flesh Eating Strain, BIRD M3)	A	10	0
	B	10	0
Vancomycin intermediate resistant <i>Staphylococcus aureus</i> VISA	A	10	0
	B	10	0

**BACTERICIDAL DATA** (continued):

**Conclusion:** Under the conditions of these investigations, Gen10 Detergent/Disinfectant demonstrated bactericidal activity against *Staphylococcus aureus*, *Salmonella (choleraesuis) enterica*, *Pseudomonas aeruginosa* PRD 10, *Brevibacterium ammoniagenes*, *Enterobacter aerogenes*, *Escherichia coli*, *Klebsiella pneumoniae*, *Listeria monocytogenes*, Methicillin resistant *Staphylococcus aureus* (MRSA), *Salmonella (schottmuelleri) enterica*, *Shigella dysenteriae*, *Streptococcus faecalis*, *Streptococcus pyogenes* (Clinical -Flesh Eating Strain, BIRD M3), *Streptococcus salivarius* and Vancomycin intermediate resistant *Staphylococcus aureus* (VISA) according to criteria established by the U.S.Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

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**VIRUCIDAL DATA:**

**Test Methods:**

\*U.S. E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, 1982, Section 91-30, pp. 72-76. †Virucide Assay (EPA, Federal Register 10, No. 123, 6/25/75, p. 26836)

• Protocols for Testing the Efficacy of Disinfectants against Hepatitis B Virus (HBV) (EPA, Federal Register, Vol., 65, No. 166, 8/25/2000, p. 51828).

†Protocol for Testing Disinfectants against Hepatitis C Virus using Bovine Viral Diarrhea Virus as approved by the U.S. EPA on August 15, 2002.

**Test Conditions:** dilution (see below), 10 minute contact time, tested in the presence of organic soil load, glass petri dish substrates

**Results:**

Test Organism	Dilution	Sample	Titer Reduction
Adenovirus Type 2	2oz./gal	A B	
*Avian Influenza A Virus (H3N2) (Avian Reassortant) (ATCC VR-2072)	2oz./gal	A B	
*Avian Influenza Virus, Type A (Turkey/WIS/66)(H9N2)	2oz./gal	A B	
‡Bovine Viral Diarrhea Virus (BVDV)	2oz./gal	A B	
*Feline Calicivirus (FCV)	2oz./gal	A B	
*Hepatitis B Virus (HBV) (Duck Hepatitis B Virus-DHBV)	2oz./gal	A B	
‡Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus-BVDV)	2oz./gal	A B	
†Herpes Simplex Type 1 (Sabin)	2oz./gal	A B	
*Human Coronavirus (ATCC VR-740, strain 229E)	2oz./gal	A B	
*Human Immunodeficiency Virus, HTLV-IIIIF. strain Of HIV-1 (associate with AIDS)	2oz./gal	A B	
†Influenza A2 (Japan 305/57)	2oz./gal	A B	
*Norovirus (Norwalk Virus) (FCV)	2oz./gal	A B	
Pandemic 2009 H1N1 Influenza A Virus	2oz./gal	(Refer to NOTE below)	
*Porcine Respiratory & Reproductive Syndrome Virus (PRRSV)(strain NVSL)	2oz./gal	A B	
†Vaccinia (Wyeth)	2oz./gal	A B	
*SARS Associated Coronavirus (ZeptoMetrix)	2oz./gal	A B	
*Canine Adenovirus	8oz./gal	A B	
*Canine Coronavirus	8oz./gal	A B	
*Canine Parainfluenza Virus (CPI/PI-2)	8oz./gal	A B	
*Canine Parvovirus Type 2 (CPV-2b/Eu)	8oz./gal	A B	
*Feline Coronavirus	8oz./gal	A B	
*Feline Panleukopenia Virus	8oz./gal	A B	
*Feline Picornavirus (ATCC VR-653)	8oz./gal	A B	
*Feline Rhinotracheitis Virus	8oz./gal	A B	
*Porcine Parvovirus	8oz./gal	A B	

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**Conclusion:** Under the conditions of this investigation, Gen10 Detergent/Disinfectant demonstrated virucidal activity at 2 oz./gal against Adenovirus Type 2, Avian Influenza A Virus (H3N2), Avian Influenza Virus Type A (H9N2), Bovine Viral Diarrhea Virus (BVDV), Feline Calicivirus (FCV), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Type I, Human Coronavirus, Human Immunodeficiency Virus (HIV-I), Influenza A2, Norovirus (Norwalk Virus), Pandemic H1N1 Influenza A Virus, Porcine Respiratory & Reproductive Syndrome Virus, SARS Associated Coronavirus and Vaccinia (Wyeth) and at 8 oz/gal against Canine Adenovirus, Canine Coronavirus, Canine Parainfluenza Virus, Canine Parvovirus, Feline Coronavirus, Feline Panleukopenia Virus, Feline Picornavirus, Feline Rhinotracheitis Virus, and Porcine Parvovirus according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a Virucide.

**NOTE:** Per the EPA guidance document dated October 21, 2009, disinfectant products that bear label claims against human, avian, or swine influenza A virus, and have submitted and received approval of efficacy data to support these label claims, may include a label claim against the Pandemic 2009 H1N1 Influenza A Virus.

**FUNGICIDAL DATA:**

**Test Method:** AOAC Fungicidal Test

**Test Organism:** *Trichophyton mentagrophytes* (ATCC 9533)

**Test Conditions:** 2 oz./gal dilution, 5% organic soil load, 20°C exposure temperature

**Results:**

Exposure Time (min.) vs. Growth			
Sample	<u>5</u>	<u>10</u>	<u>15</u>
A	+	0	0
B	+	0	0

**Conclusion:** Under the conditions of this investigation, Gen10 Detergent/Disinfectant demonstrated fungicidal activity against *Trichophyton mentagrophytes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

**SANITIZATION DATA:**

**Test Method:** AOAC Germicidal and Detergent Sanitizing Action of Disinfectants

**Test Conditions:** 200 ppm active quaternary, 2 oz./3.5 gal dilution

**Results:**

Test Organism	Sample	Synthetic Hard Water (ppm)	TOTAL BACTERIAL COUNTS/ %KILL vs. EXPOSURE TIME			
			30 seconds		60 seconds	
			TBC *	%Kill†	TBC	%Kill†
<i>Staphylococcus aureus</i> (ATCC 6538)	A	250	1120	99.999	65	99.999
	B	250	1065	99.999	70	99.999
	C	250	1275	99.999	185	99.999
<i>Escherichia coli</i> (ATCC 11229)	A	300	950	99.999	65	99.999
	B	300	1215	99.999	80	99.999
	C	300	1460	99.999	190	99.999

\* TBC =Total Bacterial Count, cfu/ml

†% Kill calculated based on initial inoculum control count of 75-125 x 10<sup>6</sup> cfu/ml.

**Conclusion:** Under the conditions of these investigations, Gen10 Detergent/Disinfectant demonstrated sanitizing activity against *Staphylococcus aureus* and *Escherichia coli* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a sanitizer.



### MILDEW FUNGISTATIC DATA:

**Test Method:** Hard Surface Mildew Fungistatic Test (Unofficial Protocol, 10/27/76)

**Test Organism:** *Aspergillus niger* (ATCC 6275)

**Test Conditions:** 2 oz./gal dilution, tile substrates

**Results:**

SAMPLE	No. of Exposed tiles	No. of Tiles Showing Growth
GEN 10	10	0
CONTROL	10	10

**Conclusion:** Under the conditions of this investigation, Gen10 Detergent/Disinfectant demonstrated fungistatic activity against *Aspergillus niger* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungistat.

### BACTERICIDAL STABILITY DATA OF USE-SOLUTION:

**Test Method:** Use Dilution

**Test Conditions:** 5% organic soil load, 10 minute contact time, stainless steel carrier substrates, deionized water, 20°C exposure temperature, 2 oz. /gal dilution

**Storage Conditions:** sealed containers at room temperature

**Results:** Number of Carriers

Test Time	Sample	Test Organism	Exposed	Positive
Zero Time	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 1	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 2	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 3	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
Week 4	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
		<i>Salmonella (choleraesuis) enterica</i> (ATCC 10708)	10	0
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0

**Conclusion:** The results of this investigation show that a 2 oz./gal use dilution of Gen10 Detergent/Disinfectant will demonstrate disinfectant efficacy against *Staphylococcus aureus*, *Salmonella (choleraesuis) enterica*, and *Pseudomonas aeruginosa* for up to 4 weeks in accordance with criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.